

PATENT ABSTRACTS OF JAPAN

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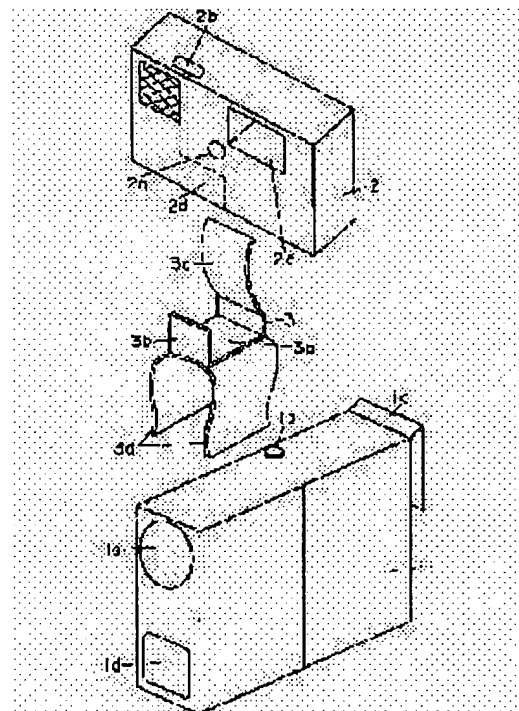
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(54) VIDEO CAMERA

(57)Abstract:

PURPOSE: To provide a video camera capable of easily taking a photograph even in the midst of video recording with very simple constitution.

CONSTITUTION: This video camera has an adapter 3 for positioning and holding a film 2 provided with a lens, and an elastic piece 3c for pressing and interposing one end face of the film 2. By attaching the film 2 at a specified position on the adapter 3 and attaching the adapter 3 at a specified position on a video camera main body 1, the optical axis of the film 2 becomes nearly parallel with the optical axis of the video camera.



LEGAL STATUS

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DETAILED DESCRIPTION

[Detailed Description of the Invention]**[0001]**

[Industrial Application] This invention makes [especially] photography possible about a video camera (camcorder/movie) if needed at the time of video photography with an easy configuration.

[0002]

[Description of the Prior Art] In recent years, large small lightweight-ization is attained, and since the carrying became very easy, the opportunity of a video camera of video photography has been increasing dramatically.

[0003] However, it is plentifully to leave not as a video image but as a photograph depending on the scene, and is still indispensable also to the camera for photography.

[0004] However, since it would become loading dramatically although it both became compact if it is going to carry both a video camera and the camera for photography, the selection was the source of a trouble dramatically for the user.

[0005] Only a video camera is brought and the users who receive this easy disposable camera there and use it are beginning to increase in number without bringing the camera for photography to a site specially, since image quality is also becoming a so so satisfying thing while a cheap disposable camera (disposable camera) spreads dramatically and can obtain anywhere easily as an inclination in recent years.

[0006]

[Problem(s) to be Solved by the Invention] However, it was almost next to impossible to have carried out simultaneously, and when it was also going to perform photography of a certain scene to the midst which is performing video photography conventionally, since it was necessary to have and change a video camera to the camera for photography, the moment for a good picture was missed in very many cases.

[0007] This invention solves the above-mentioned technical problem, and aims at offering the video camera which can take a photograph easily also in video photography by the very easy configuration.

[0008]

[Means for Solving the Problem] In order to attain the above-mentioned object, the video camera of this invention is constituted by equipping the body of a video camera with an adapter in a predetermined location so that the optical axis of a disposable camera and the optical axis of a video camera may be parallel mostly, while having an adapter for carrying out positioning maintenance of the disposable camera, and an elastic piece for pressing and pinching the end side of a disposable camera and equipping an adapter with a disposable camera in a predetermined location.

[0009]

[Function] By this configuration, the video camera of this invention only equips the predetermined location of the body of a video camera with an adapter, and can make parallel mostly the optical axis of a video camera and a disposable camera while it can hold a disposable camera certainly by the adapter.

[0010]

[Example] Hereafter, one example of the video camera of this invention is explained, referring to a drawing.

[0011] Drawing 1 is the decomposition perspective view showing the appearance configuration of this example. In drawing, if 1 is a body of a video camera, magnitude and a configuration are not limited to this example and it has an image transcription function, the technical thought of this invention is applicable to all models. In addition, the body 1 of a video camera consists of lens section 1a, image transcription carbon button 1b, finder 1c, and microphone 1d etc.

[0012] 2 is a disposable camera and consists of lens section 2a, shutter 2b, and finder 2c etc. In addition, a disposable camera 2 can apply what is marketed from each company.

[0013] 3 is an adapter, is really fabricated with synthetic resin, such as plastics, and consists of installation section 3a,

height 3b, elastic piece 3c, and 3d of the U character-like legs.

[0014] That is, installation section 3a is a base for carrying a disposable camera 2, and since the magnitude of a disposable camera 2 changes little by little with each companies, it is constituted somewhat more greatly. Height 3b does not contact the front face of a disposable camera 2, and projects in extent which does not cover near the lens section 2a. It is for elastic piece 3c to hold a disposable camera 2 certainly by pressing a disposable camera 2 from a rear face, and pinching by height 3b, and the difference among some magnitude of a disposable camera 2 is absorbed by this elastic piece 3c. 3d of U character-like legs makes an adapter 3 certainly fix to the upper part of the body 1 of a video camera, and in order to hold more certainly, they have a certain amount of elasticity, while being formed in the configuration where the appearance configuration of the body of video camera 1 upper part was met. In addition, what is necessary is for the appearance configuration of the body of video camera 1 upper part to be complicated, and to replace with 3d of U character-like legs in that case using the flat-surface part of the body of video camera 1 upper part, and for a double faced adhesive tape etc. just to perform immobilization of an adapter 3, since a thing firmly unfixable in 3d of U character-like legs also exists.

[0015] the time of equipping the predetermined location of an adapter 3 with an adapter 3, and equipping the predetermined location of the body 1 of a video camera with a disposable camera 2 here -- exactly -- the location of shutter 2b -- installation section 3a -- while being designed so that it may come near right above mostly, it is designed so that the optical axis of the lens system of a disposable camera 2 and the body 1 of a video camera may become almost parallel.

[0016] When a shutter 2 is pushed, while being able to prevent by this that drop of a disposable camera 2, an inclination, a location gap, etc. arise with the vigor, in case a photograph is taken, a photograph can be taken only by it becoming unnecessary to look into finder 2c of a disposable camera 2 anew specially, and seeing finder 1c of the body 1 of a video camera.

[0017] Furthermore, if the field angle of a video camera is designed so that it may become somewhat narrower than the field angle of a disposable camera, he feels easy about what is visible by finder 1c of the body 1 of a video camera as it is, and you can leave as a photograph certainly.

[0018] In addition, if 2d of marks in which the location which contacts an adapter 3 is shown is beforehand put on the front face of a disposable camera 2 so that the predetermined location of an adapter 3 can be equipped with a disposable camera 2, setting of a disposable camera 2 will be attained certainly and simply.

[0019] Moreover, if it is made the configuration in which the mutual configuration where engagement on an adapter 3 and the body 1 of a video camera was decided uniquely was employed efficiently so that the predetermined location of the body 1 of a video camera can be equipped with an adapter 3, setting of an adapter 3 of not covering image transcription carbon button 1b will be attained certainly and simply, for example.

[0020] In addition, it becomes possible to also perform photography by connecting mechanically or electrically an image transcription carbon button and the shutter release of a disposable camera, interlocking them as application of this technical thought, and devising that a shutter goes out only when it pushes in deeply etc., corresponding to the degree which a carbon button pushes in, or the die length to push in, ensuring video photography.

[0021]

[Effect of the Invention] Since it can be made mostly in agreement, without performing both optical-axis adjustment only by equipping a predetermined location while the attachment and detachment to the body of a video camera of a disposable camera can carry out simply and certainly only by using an adapter according to this invention so that clearly from the above explanation, the video camera which can take a photograph easily is realizable also in video photography with a very easy configuration.

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] The decomposition perspective view showing the appearance configuration of one example of the video camera of this invention

[Description of Notations]

1 Body of Video Camera

1a Lens section

1b Image transcription carbon button

1c Finder

1d Microphone

2 Disposable Camera

2a Lens section

2b Shutter

2c Finder

3 Adapter

3a Installation section

3b Height

3c Elastic piece

3d U character-like engagement section

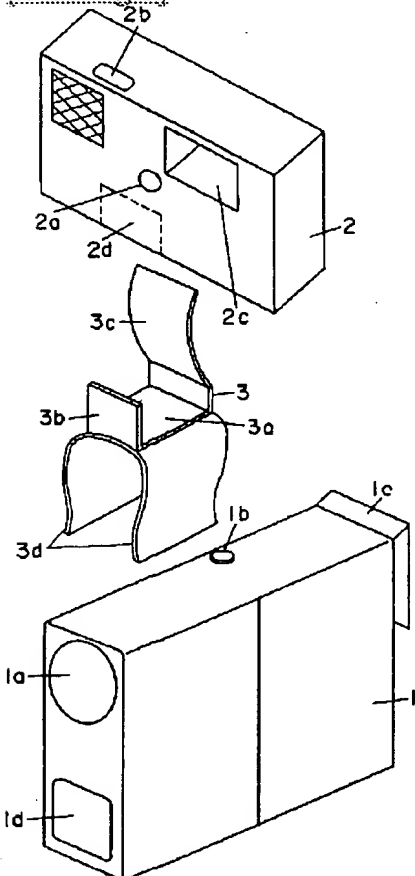
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DRAWINGS

[Drawing 1]

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CLAIMS

[Claim(s)]

[Claim 1] The adapter for being prepared in the body of a video camera free [attachment and detachment], and carrying out positioning maintenance of the disposable camera, While being prepared in said adapter, having an elastic piece for pressing and pinching the end side of said disposable camera and equipping said adapter with said disposable camera in a predetermined location The video camera characterized by being constituted so that the optical axis of said disposable camera and the optical axis of said video camera may become almost parallel by equipping said body of a video camera with said adapter in a predetermined location.

[Claim 2] The video camera according to claim 1 with which the shutter section of said disposable camera is characterized by the thing of said adapter mostly come near right above when the predetermined location of an adapter is equipped with a disposable camera.

[Claim 3] Wearing of the adapter to the body of a video camera is a video camera according to claim 1 with which the leg of the letter of the abbreviation for U characters which has the elasticity established by accompanying the appearance configuration of said body of a video camera while being prepared in the lower part of said adapter is characterized by being carried out by pinching said body of a video camera.

[Claim 4] Wearing of the adapter to the body of a video camera is a video camera according to claim 1 characterized by being carried out by making the underside and said top face of a video camera body of said adapter engaged by the double faced adhesive tape.

[Claim 5] The video camera according to claim 1 characterized by attaching the mark in which the location where this disposable camera and adapter contact by predetermined relation is shown on the surface of a disposable camera.

[Claim 6] The video camera according to claim 1 characterized by setting up the field angle of a video camera so that it may become narrower than the field angle of a disposable camera.

[Claim 7] The adapter for video cameras characterized by making parallel mostly the optical axis of said disposable camera, and the optical axis of said video camera when the predetermined location of said body of a video camera is equipped, while being prepared in the body of a video camera free [attachment and detachment], being an adapter for video cameras for carrying out positioning maintenance of the disposable camera, having an elastic piece for pressing and pinching the end side of said disposable camera and equipping a predetermined location with said disposable camera.

[Translation done.]